

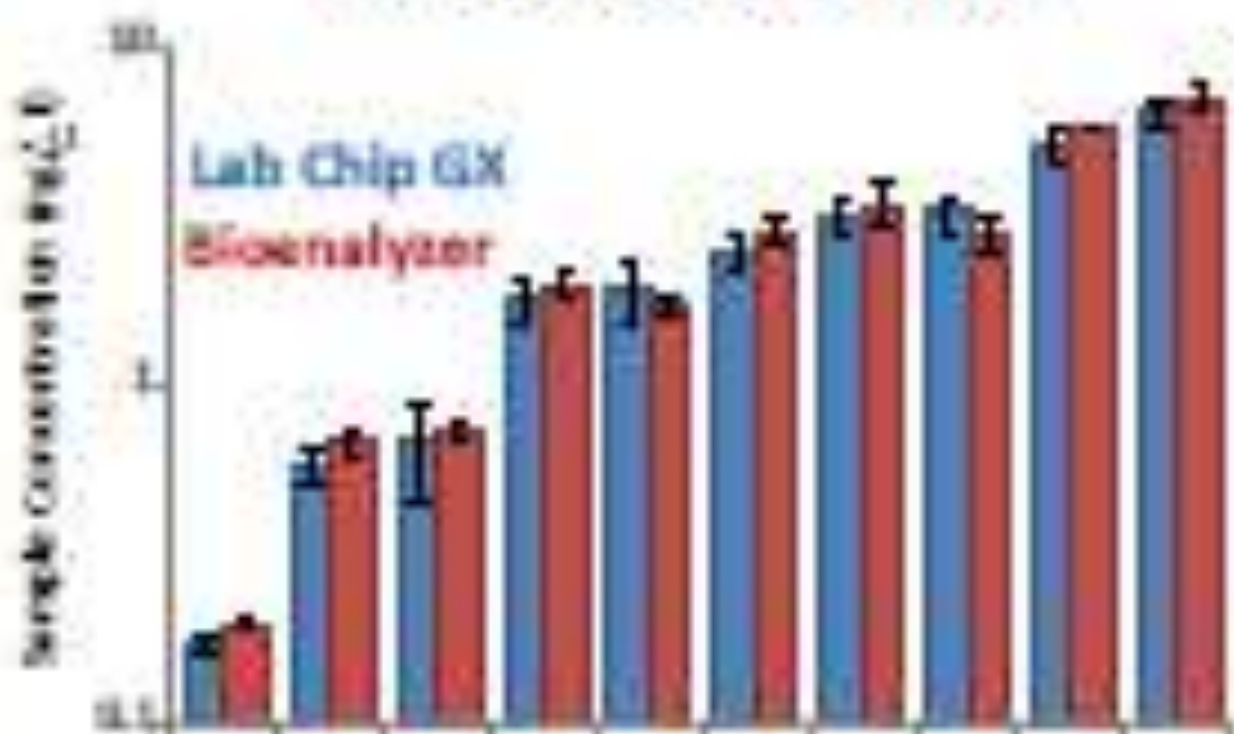
CALIPER v. BIOANALYZER: DNA

The Caliper Labchip GX and Agilent Bioanalyzer both provide a platform for analyzing DNA samples at high sensitivity. We performed several validation assays to compare the performance of the two platforms on samples prepared for Illumina sequencing.

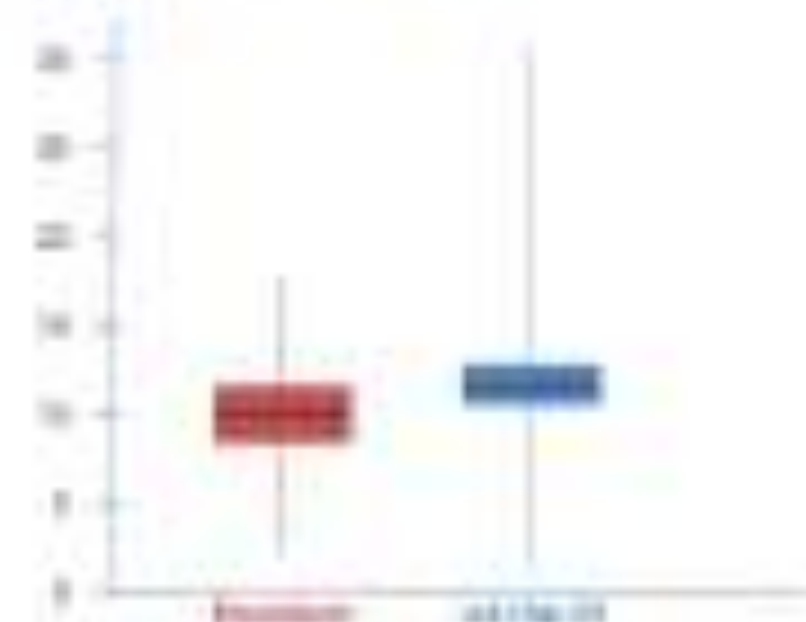
Manufacturers' Specifications

	BIOANALYZER	LABCHIP
Size range	50-7000bp	50-5000bp
Linear Range	5-500 pg/ μ l	10-500 pg/ μ l
Accuracy	+/- 20%	+/- 30%
Batch Size	11 samples	96 samples

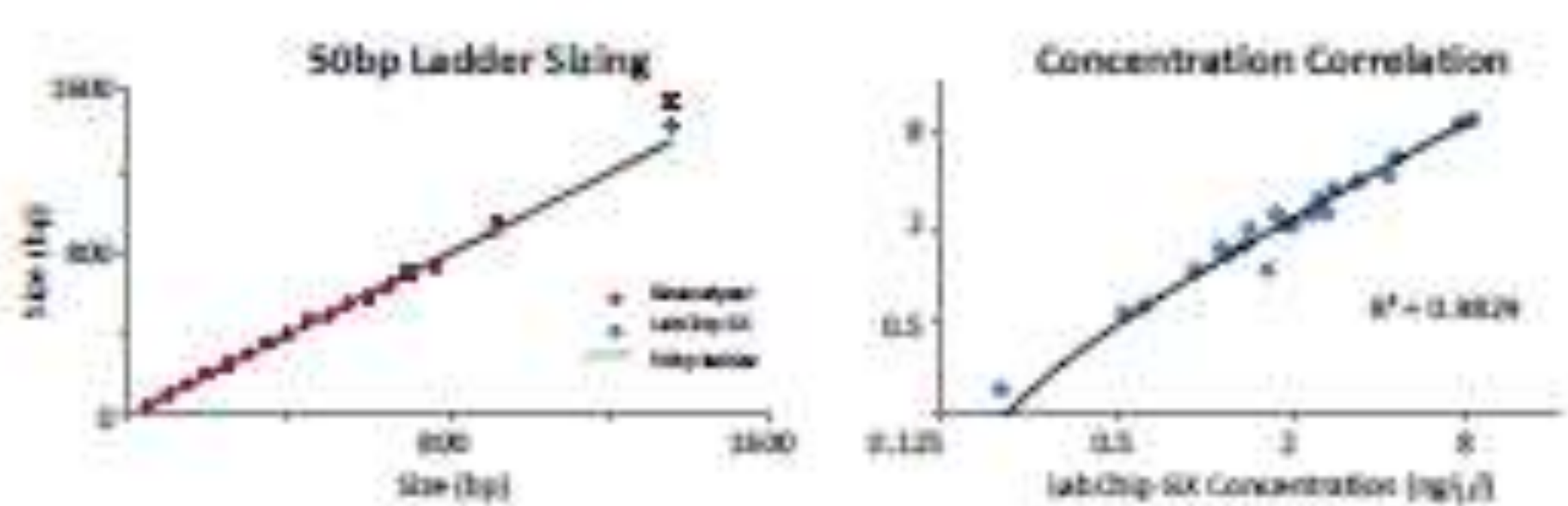
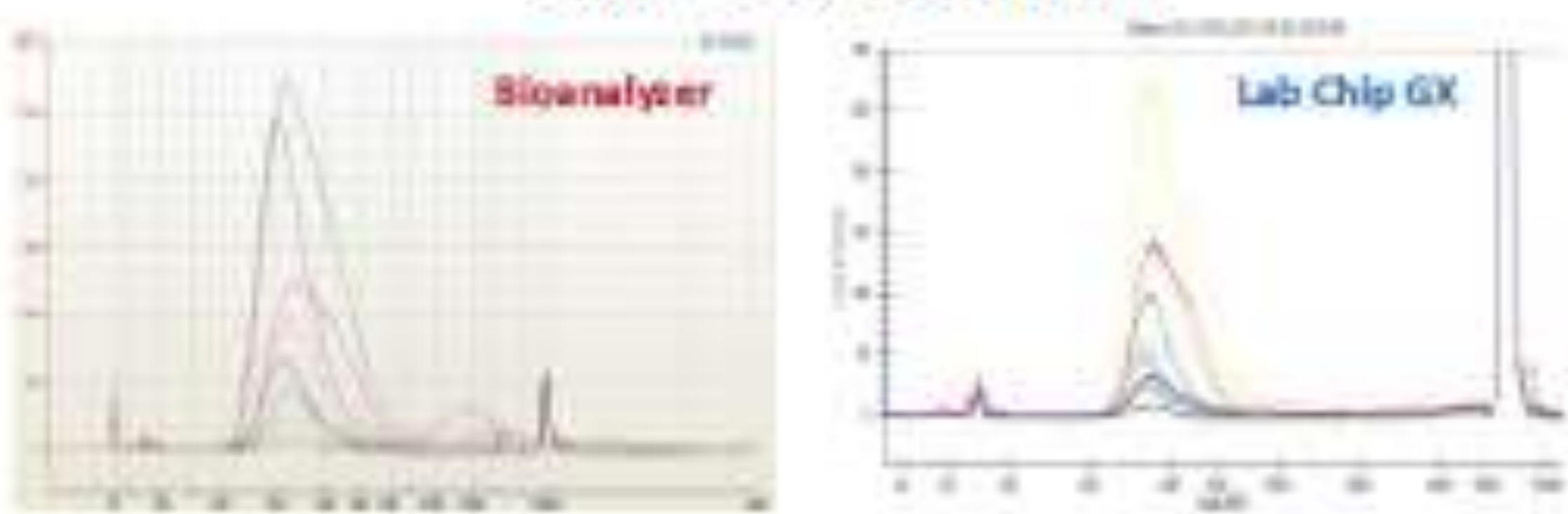
Reproducibility



10 DNA samples run six times on the Lab Chip and twice on the Bioanalyzer. Error bars indicate the standard deviation, a box plot of the errors is shown below.



Cross Comparison



NEB 50bp ladder and 21 samples were compared on both the Bioanalyzer and the LabChip. Results indicate the two instruments have very similar behaviors as expected.